UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/504,156	02/15/2000	Jordan Brown	SUNB1P376/P4382	7524

22434 7590 02/27/2003

BEYER WEAVER & THOMAS LLP
P.O. BOX 778
BERKELEY, CA 94704-0778

EXAMINER
KENDALL, CHUCK O

ART UNIT	PAPER NUMBER
2122	

DATE MAILED: 02/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/504,156	Applicant(s) BROWN ET AL.	
	Examiner Chuck O Kendall	Art Unit 2122	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *15 February 2000* .

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☐ Claim(s) _____ is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-22* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____ .

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .
4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: .

DETAILED ACTION

1. This action is in response to the application filed 04/21/00

Claims 1-~~2~~ 22 have been examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

b (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Preisler et al. USPN 5,675,803.

Regarding claim 1, Preisler anticipates a method of providing replacement functions for a set of system services, comprising:

requesting a primitive function from one of the set of system services (fig6, 502), the primitive function replicating the one of the set of system services with reduced functionality (510, see new code which is a correct replication of old code) ;

and sending an identifier associated with the requested primitive function from the one of the set of system services (5:60-65).

Regarding claim 2 the method as recited in claim 1, wherein sending the identifier associated with the requested primitive function is performed only when the one of the set of system services performs a debugging function (fig, 5).

Regarding claim 3 the method as recited in claim 1, wherein sending the identifier associated with the requested primitive function is performed only when the one of the set of system services performs at least one of an input and an output function (6:50-60).

Regarding claim 4 a method of providing replacement functions for a stack of system services, the stack of system services including one or more layers, each layer representing one of the system services, wherein lower layers provide services to upper layers in the stack, the method comprising:

sending a primitive function request down to one of the layers in the stack, the primitive function replicating the system service associated with the one of the layers in the stack;

when the one of the layers is responsible for performing at least one of input and output, returning a primitive function identifier associated with the primitive function (11:15-33).

Regarding claim 5 the method as recited in claim 4, further comprising:

when the one of the layers is responsible for performing at least one input and output, sending another primitive function request from the one of the layers in the stack to a lower layer in the stack (11:20-25).

Regarding claim 6 the method as recited in claim 4, further comprising:

propagating the primitive function request down the one or more lay of the stack of system services (7:1-20).

Regarding claim 7 a method of providing replacement functions for a stack of system services, the stack of system services including one or more layers, each layer representing one of the system services, wherein lower layers provide service to upper layers in the stack, the method comprising:

sending a primitive function request down from a first one of the layers in the stack to a second one of the layers in the stack, the primitive function replicating the system service associated with the second one of the layers in the stack (11:5-30);

returning primitive function information associated with the primitive function to the first one of the layers (11:5-30);; and

storing the primitive function information to enable the first one of the layers in the stack to communicate with the second one of the layers in the stack 7:28-33.

Regarding claim 8 the method as recited in claim 7, wherein the primitive function information includes a pointer to the primitive function (5:33).

Regarding claim 9 the method as recited in claim 7, wherein the primitive function information includes state information data to be provided to the primitive function when the primitive function is called (9:5-20).

Regarding claim 10 the method as recited in claim 7, further comprising:

repeating the sending, returning, and storing steps over multiple layers of the stack such that a stack of primitive mechanisms parallel to the stack of system services is assembled (10:10-20).

Regarding claim 11 see claim 4 for reasoning.

Regarding claim 12 see claim 2 for reasoning.

Regarding claim 13 see claim 1 for reasoning.

Regarding claim14 the system as recited in claim 13, further comprising:

a primitive function calling mechanism adapted for calling one or more primitive functions associated with the one or more identifiers returned by the primitive function request mechanism (5:35-40).

Regarding claims 15 the system as recited in claim 14, wherein the primitive function calling mechanism is associated with one or more of the set of components (6:1-10, for components see objects).

Regarding claim16 the system as recited in claim 13, wherein the one or more of the set of primitive functions replace one or more of the set of services when the set of services are determined to be inoperative (10:35-50, for inoperative see error).

Regarding claim 17 see claim 2 for reasoning also see 9:9-15.

Regarding claim 18 the system as recited in claim 13, further comprising:

state information associated with each of the set of components, the state information including data that enables the corresponding service to communicate with another one of the set of services.

Regarding claim 19 see claim 9 for reasoning.

Regarding claim 20 see claim 3 for reasoning.

Regarding claim 21 the system as recited in claim 13, wherein the set of services and the set of primitive functions provide keyboard functionality (inherently services within a pc environment provide the use of keyboard functionality for all programs, and programming which involves receiving input e.g. debuggers, installers, compilation, communication, configuration etc.).

Regarding claim 22 see claim1, for reasoning.

Correspondence Information

Any inquires concerning this communication or earlier communications from the examiner should be directed to Chuck O. Kendall who may be reached via telephone at (703) 308-6608. The examiner can normally be reached Monday through Friday between 8:00 A.M. and 5:00 P.M. est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *Greg Morse can be* reached at *(703) 308-4789.*

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is *(703) 305-3900.*

For facsimile (fax) send to 703-7467239 official and 703-7467240 draft

Chuck O. Kendall

Software Engineer Patent Examiner
United States Department of Commerce

GREGORY MORSE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100